

Amendments to the Specification:

- Please add the following paragraphs after the second full paragraph on page 2 of the specification:

In a 1st exemplary fuel cell according to an embodiment, there is a fuel cell comprising a membrane electrode assembly comprising an electrolyte membrane and a pair of porous diffusion layer electrodes provided on both sides of the electrolyte membrane; and first and second separators sandwiching the membrane electrode assembly, each of the first and second separators being formed to have, on its surface opposite to the membrane electrode assembly, a gas flow path and a rib defining the gas flow path, wherein at least one of the ribs of each of the first and second separators is provided with a projection for pressing the porous diffusion layer electrode. In a 2nd exemplary fuel cell according to an embodiment, the 1st exemplary fuel cell has the projection formed along the entire length of the rib. In a 3rd exemplary fuel cell according to an embodiment, the 2nd exemplary fuel cell has a plurality of the projections provided in parallel with each other on the rib.

In a 4th exemplary fuel cell according to an embodiment, the fuel cells of any of the 1st to 3rd fuel cells have a plurality of the projections that differ in at least one of a height and a width thereof are provided on at least one of the ribs. In a 5th exemplary fuel cell according to an embodiment, the fuel cells of any of the 1st to 4th fuel cells have the feature of at least one of a height and a width of the projection continuously changing along the longitudinal direction of at least one of the ribs. In a 6th exemplary fuel cell according to an embodiment, the fuel cells of any of the 1st to 5th fuel cells are such that the ribs of the first and second separators, which are located opposite to each other, are respectively provided with the projections, wherein the projections are positioned opposed to each other. In a 7th exemplary fuel cell according to an embodiment, the fuel cells of any of the 1st to 5th fuel cells are configured such that the ribs of the first and second separators, which are located opposite to each other, are respectively provided with the projections, wherein the projections are positioned shifted from each other.

In an 8th exemplary fuel cell according to an embodiment, the fuel cells of any of the 1st to 5th fuel cells are configured such that the ribs of the first and second separators, which

are located opposite to each other, are respectively provided with the projections, and the number of the projections on each of the ribs differs from each other. In a 9th exemplary fuel cell according to an embodiment, the fuel cells of any of the 1st to 8th fuel cells are configured such that the projection is configured to be in one of flat face contact, curved face contact, point contact or line contact with the porous diffusion layer electrode. In a 10th exemplary fuel cell according to an embodiment, the fuel cells of any of the 1st to 9th fuel cells are configured such that the projection is made of material different from that of the first and second separators.

In an 11th exemplary fuel cell according to an embodiment, the fuel cells of any of the 1st to 7th fuel cells are configured such that the width of the projection is the same as that of the rib. In a 12th exemplary fuel cell according to an embodiment, the fuel cells of any of the 1st to 11th fuel cells are configured such that on at least one of the first and second separators, a plurality of gas flow paths are formed in parallel with each other to form a gas flow path bundle, wherein the projection is provided on an outermost rib that defines the gas flow path bundle.

In a 13th exemplary fuel cell according to an embodiment, the fuel cells of any of the 1st to 12th fuel cells are configured such that on at least one of the first and second separators, a plurality of gas flow paths are formed in parallel with each other to form a gas flow path bundle, the gas flow path bundle is formed in a serpentine shape, wherein the projection is provided on the rib near a winding portion of the gas flow path bundle.

In a 14th exemplary fuel cell according to an embodiment, the fuel cells of any of the 1st to 11th fuel cells are configured such that a pair of comb-shaped flow paths are formed on at least one of the first and second separators, each of the comb-shaped flow paths includes a main flow path and a plurality of branch flow paths branched from the main flow path, the branch flow paths of the pair of the comb-shaped flow paths are arranged alternately along the longitudinal direction of the main flow path, wherein the projection is provided on the rib positioned at an end of one of the branch flow paths. In a 15th exemplary fuel cell according to an embodiment, the fuel cells of any of the 1st to 11th fuel cells are configured such that a pair of first comb-shaped flow path and second comb-shaped flow path are formed on at least

one of the first and second separators, each of the first and second comb-shaped flow paths includes a main flow path and a plurality of the branch flow paths branched from the main flow path, the branch flow paths of the first and second comb-shaped flow paths are arranged alternately along the longitudinal direction of the main flow path of one of the first and second comb-shaped flow paths; at an end of the main flow path of the first comb-shaped flow path, a supply port is provided for supplying gas, and at the other end of the main flow path of the second comb-shaped flow path, a discharge port is provided for discharging gas; and the projection is provided on a part of the rib located between the branch flow paths of the first and second comb-shaped flow paths and on a side of the discharge port with respect to the branch flow paths of the second comb-shaped flow path.

In a 16th exemplary fuel cell according to an embodiment, the fuel cell of the 12th fuel cells is configured such that the projection is formed to be wider on the rib downstream. In a 17th exemplary fuel cell according to an embodiment, the fuel cell the 12th or 15th fuel cell are configured such that the projection is formed to be taller on the rib downstream.

In an exemplary embodiment, there is a fuel cell including a membrane electrode assembly comprising an electrolyte membrane and a pair of porous electrodes provided on both sides of the electrolyte membrane, first and second separators sandwiching the membrane electrode assembly, each of the first and second separators being formed to have, on a surface adjacent to the membrane electrode assembly, a gas flow path and a rib defining the gas flow path, wherein, on the first separator and/or on the second separator, a plurality of gas flow paths are formed in parallel with each other to collectively form a gas flow path bundle, wherein the gas flow path bundle is formed in a serpentine shape having a winding portion, and wherein the gas flow path bundle includes, at the winding portion, a bent gas flow path and a bent rib defining the bent gas flow path, wherein the bent gas flow path includes a bend formed by a first straight flow path segment and a second straight flow path segment extending from a downstream end of the first straight flow path segment, and the bent rib includes a part defining the bend, and a plurality of projections for pressing the porous electrode, each located on the part of the bent rib defining the bend, at a position on an extension line of the first straight flow path segment forming the bend, wherein the projections have a length substantially equal to a sum of a width of the first straight flow path

segment and widths of ribs defining the first straight flow path segment on both sides thereof, while the projections differ in a height and/or a width thereof.

In another exemplary embodiment, there is a fuel cell including a membrane electrode assembly comprising an electrolyte membrane and a pair of porous electrodes provided on both sides of the electrolyte membrane, a first and second separators sandwiching the membrane electrode assembly, each of the first and second separators being formed to have, on a surface adjacent to the membrane electrode assembly, a gas flow path and a rib defining the gas flow path, wherein, on the first separator and/or on the second separator, a plurality of gas flow paths are formed in parallel with each other to collectively form a gas flow path bundle, wherein the gas flow path bundle is formed in a serpentine shape having a winding portion, and wherein the gas flow path bundle includes, at the winding portion, a bent gas flow path and a bent rib defining the bent gas flow path, wherein the bent gas flow path includes a bend formed by a first straight flow path segment and a second straight flow path segment extending from a downstream end of the first straight flow path segment, and the bent rib includes a part defining the bend, and a projection for pressing the porous electrodes, located on the part of the bent rib defining the bend, at a position on an extension line of the first straight flow path segment forming the bend, wherein the projection has a length substantially equal to a sum of a width of the first straight flow path segment and widths of ribs defining the first straight flow path segment on both sides thereof, while a height and/or a width of the projection continuously changes along the part of the bent rib defining the bend.

In another exemplary embodiment, there is a fuel cell comprising a membrane electrode assembly comprising an electrolyte membrane and a pair of porous electrodes provided on both sides of the electrolyte membrane, a first and second separators sandwiching the membrane electrode assembly, each of the first and second separators being formed to have, on a surface adjacent to the membrane electrode assembly, a gas flow path and a rib defining the gas flow path, wherein a pair of interdigitated flow paths are formed on the first separator and/or on the second separator, wherein each of the interdigitated flow paths includes a main flow path and a plurality of branch flow paths branched from the main flow path, and wherein the branch flow paths of the pair of the interdigitated flow paths are arranged alternately along a longitudinal direction of the main flow path, and wherein each

branch flow path includes a straight flow path segment having a terminal end at a downstream end thereof, and the rib includes a part defining the terminal end, and a plurality of projections for pressing the porous electrode, each located on the part of the rib defining the terminal end, at a position on an extension line of the straight flow path segment having the terminal end, wherein the projections have a length substantially equal to a sum of a width of the first straight flow path segment and widths of ribs defining the first straight flow path segment on both sides thereof, while the projections differ in a height and/or a width thereof.

In another exemplary embodiment, there is a fuel cell comprising a membrane electrode assembly comprising an electrolyte membrane and a pair of porous electrodes provided on both sides of the electrolyte membrane, first and second separators sandwiching the membrane electrode assembly, each of the first and second separators being formed to have, on its surface adjacent to the membrane electrode assembly, a gas flow path and a rib defining the gas flow path, wherein a pair of interdigitated flow paths are formed on the first separator and/or on the second separator, wherein each of the interdigitated flow paths includes a main flow path and a plurality of branch flow paths branched from the main flow path, and wherein the branch flow paths of the pair of the interdigitated flow paths are arranged alternately along a longitudinal direction of the main flow path, and wherein each branch flow path includes a straight flow path segment having a terminal end at a downstream end thereof, and the rib includes a part defining the terminal end, and a projection for pressing the porous electrode, located on the part of the rib defining the terminal end, at a position on an extension line of the straight flow path segment with the terminal end, wherein the projection has a length substantially equal to a sum of a width of the straight flow path segment and widths of the ribs defining the straight flow path segment on both sides thereof, while a height and/or a width of the projection continuously changes along the part of the rib defining the terminal end.